1. Identification

Material name: PAD ETCH 16:3:3 W/OHS, CPG GRADE
Issue date: 30-June-2014
Revision date: -
Supersedes date: -

Other means of identification:
- Spec ID: 100000002077
- Synonyms: None.

Recommended use:
Etchant used in semiconductor manufacturing.

Recommended restrictions:
None known.

Supplier information:
FUJIFILM Electronic Materials U.S.A., Inc.
80 Circuit Drive
North Kingstown RI 02852

Transportation Emergency:
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300
Medical Emergency (24HR):
FOR ANY HEALTH & MEDICAL EMERGENCY, 24 HOURS /7 DAYS CALL:
1-800-365-8951
Non-emergency Telephone:
FOR ALL SDS REQUESTS & QUESTIONS, CALL CUSTOMER SERVICE:
1-800-553-6546

SDS file:
10382_US_EN_V1.0
Replaces file:
None

2. Hazard(s) identification

Physical hazards:
Not classified.

Health hazards:
- Acute toxicity, oral: Category 3
- Acute toxicity, dermal: Category 3
- Acute toxicity, inhalation: Category 3
- Skin corrosion/irritation: Category 2
- Serious eye damage/eye irritation: Category 2A
- Specific target organ toxicity, repeated exposure (oral): Category 2 (Kidney)

Environmental hazards:
Hazardous to the aquatic environment, acute hazard: Category 3

OSHA defined hazards:
Not classified.

Label elements:

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
<td>Toxic if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. May cause damage to organs (Kidney) through prolonged or repeated exposure by ingestion.</td>
<td>Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.</td>
</tr>
</tbody>
</table>
Response
Get medical advice/attention if you feel unwell. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
Harmful to aquatic life. Avoid release to the environment.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ammonium fluoride</td>
<td></td>
<td>12125-01-8</td>
<td>25-30</td>
</tr>
<tr>
<td></td>
<td>Phosphoric acid</td>
<td></td>
<td>7664-38-2</td>
<td>10-20</td>
</tr>
<tr>
<td></td>
<td>Ethylene glycol</td>
<td></td>
<td>107-21-1</td>
<td>10-15</td>
</tr>
</tbody>
</table>

Composition comments
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation
Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact
In case of accidents: Call an ambulance immediately! Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

Ingestion
In case of ingestion: Call an ambulance immediately! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Lay on the side.

Most important symptoms/effects, acute and delayed
Inhalation: Vapors may cause drowsiness and dizziness. Eye contact: May damage eye tissue.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials. Containers close to fire should be removed or cooled with water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid any exposure. If leakage cannot be stopped, evacuate area. Wear suitable protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up
Absorb spillage with suitable absorbent material. Collect in containers and seal securely. For waste disposal, see Section 13 of the SDS.

Environmental precautions
Do not allow to enter drains, sewers or watercourses unless authorized by permit.

7. Handling and storage
Precautions for safe handling
Local exhaust is recommended. Avoid any exposure. Wear approved safety goggles. Wear protective gloves and appropriate clothing to prevent skin contact. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store in closed original container in a dry place. Store above 21°C. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td>PEL</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>PEL</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-2 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td>Dust.</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>Ceiling</td>
<td>100 mg/m³</td>
<td>Aerosol.</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>STEL</td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td>TWA</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>STEL</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td>3 mg/l</td>
<td>Fluoride</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>2 mg/l</td>
<td>Fluoride</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

Appropriate engineering controls
If enclosed handling cannot be guaranteed, ventilation and protective clothing must be used.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear approved safety goggles.

Skin protection
Hand protection
Wear protective gloves impervious to the chemicals in use.

Other
Also wear appropriate clothing to prevent any possibility of skin contact. Suitable items can be recommended by the protective equipment supplier or by a qualified industrial hygienist.
Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 1910.134. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Colorless to pale yellow liquid.

Physical state
Liquid.

Form
Liquid.

Color
Colorless to pale yellow.

Odor
Mild ammonia.

Odor threshold
No data available.

pH
4.6 - 7 (25 °C)

Melting point/freezing point
50 °F (10 °C)

Initial boiling point and boiling range
No data available.

Flash point
None.

Evaporation rate
< 1 (Water = 1)

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Flammability limit - lower (%)
Not applicable.

Flammability limit - upper (%)
Not applicable.

Vapor pressure
No data available.

Vapor density
No data available.

Relative density
1.19 - 1.2

Solubility(ies)
Completely miscible in water.

Partition coefficient (n-octanol/water)
No data available.

Auto-ignition temperature
None.

Decomposition temperature
No data available.

Viscosity
No data available.

Other information
Density
1.19 - 1.20 g/cc

Molecular weight
Not applicable/mixture.

Percent volatile
30 - 55 %

10. Stability and reactivity

Chemical stability
Stable under normal temperature conditions.

Possibility of hazardous reactions
Will not occur.

Conditions to avoid
High temperatures.

Incompatible materials

Hazardous decomposition products
At elevated temperatures: Hydrogen. Phosphorus oxides.
11. Toxicological information

Information on likely routes of exposure

**Ingestion**
Toxic if swallowed. Causes digestive tract irritation. May cause damage to the kidneys.

**Inhalation**
Toxic if inhaled. May cause central nervous system effects. High concentrations: May cause respiratory irritation. May cause lung damage.

**Skin contact**
Toxic in contact with skin. Causes skin irritation. The product contains components which may penetrate skin.

**Eye contact**
Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Vapors may cause drowsiness and dizziness. Eye contact: May damage eye tissue.

Information on toxicological effects

**Acute toxicity**
Toxic if swallowed, in contact with skin or if inhaled.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>1000 - 2000 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>9530 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>4700 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>2740 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>2600 mg/kg, (Approximate)</td>
</tr>
<tr>
<td>LC50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization**
No data available.

**Skin sensitization**
Not a skin sensitizer. A few cases of sensitization have been reported.

Germ cell mutagenicity
No data available.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Ammonium fluoride (CAS 12125-01-8) 3 Not classifiable as to carcinogenicity to humans.

IARC: 1 = Carcinogenic to Humans; There is sufficient evidence of carcinogenicity in humans. 2A = Probably Carcinogenic to Humans; There is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals. 2B = Possibly Carcinogenic to Humans; There is limited evidence of carcinogenicity in humans and less than sufficient evidence of carcinogenicity in experimental animals. 3 = Not classifiable as to carcinogenicity to humans; The evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals. 4 = Probably not carcinogenic to humans; There is inadequate evidence of carcinogenicity in humans but evidence suggesting lack of carcinogenicity in experimental animals. Not listed = Not evaluated by IARC.

Reproductive toxicity
No data available.

Specific target organ toxicity - single exposure
No data available.

Specific target organ toxicity - repeated exposure
May cause damage to organs (Kidney) through prolonged or repeated exposure by ingestion.

Aspiration hazard
No data available.
Chronic effects
Fluorides: Can cause bone damage. Prolonged overexposure to fluorides may increase fluoride content of bones and teeth, and may result in fluorosis, with mottling of teeth (in children) and brittleness of bones. Absorbed fluoride can cause metabolic imbalances with irregular heartbeat, nausea, dizziness, vomiting and seizures. Risk of hypocalcemia with nervous problems (tetany) and cardiac arrhythmia. May cause lung damage. Ethylene glycol: Suspected carcinogen. Experimental teratogen. Human mutagenic data. Can cause cardiovascular effects.

12. Ecological information
Ecotoxicity
Harmful to aquatic life.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium fluoride (CAS 12125-01-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50</td>
<td>Algae</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Lepomis macrochirus</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data available.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Octanol/water partition coefficient log Kow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
</tr>
</tbody>
</table>

Mobility in soil
No data available.

Mobility in general
The product is miscible with water. May spread in water systems.

Other adverse effects
No data available.

13. Disposal considerations
Disposal instructions
Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous waste code
Not regulated.

Waste from residues / unused products
Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information
DOT
UN number UN1760
UN proper shipping name Corrosive liquids, n.o.s. (Ammonium fluoride, Phosphoric acid)
Transport hazard class(es) Class 8
Subsidiary risk -
Packing group III
Environmental hazards No
Marine pollutant No
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions IB3, T7, TP1, TP28
Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA
UN number UN1760
UN proper shipping name Corrosive liquid, n.o.s. (Ammonium fluoride, Phosphoric acid)
Transport hazard class(es) Class 8
Subsidiary risk -
Label(s) 8
Packing group III
Environmental hazards No
ERG Code 8L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (Ammonium fluoride, Phosphoric acid)
Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
Packing group III
Environmental hazards
Marine pollutant No.
EmS F-A, S-B
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations
This product is hazardous according to OSHA 29 CFR 1910.1200.
TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.
TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.
Drug Enforcement Administration (DEA). List 1(i), Precursor Chemicals (21 CFR 1310.02(a) and 1310.04(f)(1))
Not listed.
TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs)(40CFR 721, Subpt. E)
Not regulated.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Ethylene glycol (CAS 107-21-1)
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration
Ammonium fluoride (CAS 12125-01-8) 1.0 %
Ethylene glycol (CAS 107-21-1) 1.0 %
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
Ammonium fluoride (CAS 12125-01-8) Listed.
Ethylene glycol (CAS 107-21-1) Listed.
CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
Ammonium fluoride: 100
Phosphoric acid: 5000
Ethylene glycol: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No
Section 311/312 (40 CFR 370) Yes
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Inventory status
Country(s) or region Inventory name On inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS) Yes
Canada Domestic Substances List (DSL) Yes
Country(s) or region | Inventory name | On inventory (yes/no)*
--- | --- | ---
Canada | Non-Domestic Substances List (NDSL) | No
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

All ingredients are TSCA compliant.

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

- Ammonium fluoride (CAS 12125-01-8) Listed.
- Ethylene glycol (CAS 107-21-1) Listed.
- Phosphoric acid (CAS 7664-38-2) Listed.

US. New Jersey Worker and Community Right-to-Know Act

- Ammonium fluoride (CAS 12125-01-8)
- Ethylene glycol (CAS 107-21-1)
- Phosphoric acid (CAS 7664-38-2)

US. Pennsylvania Worker and Community Right-to-Know Law

- Ammonium fluoride (CAS 12125-01-8)
- Ethylene glycol (CAS 107-21-1)
- Phosphoric acid (CAS 7664-38-2)

US. Rhode Island RTK

- Ammonium fluoride (CAS 12125-01-8) Listed.
- Ethylene glycol (CAS 107-21-1) Listed.
- Phosphoric acid (CAS 7664-38-2) Listed.

16. Other information, including date of preparation or last revision

Further information

HMIS® is a registered trade and service mark of the NPCA.
G - Safety Glasses, Gloves, Vapor Respirator

HMIS® ratings

Health: 3*
Flammability: 0
Physical hazard: 0

Disclaimer

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. FUJIFILM PLANAR SOLUTIONS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT FUJIFILM PLANAR SOLUTIONS AT THE PHONE NUMBER 1-800-553-6546 (CUSTOMER SERVICE) TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

SDS file

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Replaces file

None